

## Domain and Range Notation

①  $x \in \mathbb{R}$  means the x-values can be any real number including All decimals, fractions, integers, etc. (the symbol  $\in$  means "an element of")

②  $x \neq 0$  means x is not equal to zero. X can be any real number BUT zero.

③  $x > 1$  means any number **bigger** than 1 including decimals and fractions.

④  $0 < x < 12$  means any number between 0 and 12, but does not include 0 or 12.

⑤  $10 \leq x \leq 50$  means any number FROM 10 to 50. The number 10 is the smallest number and 50 is the largest....so x can be any number between them and include 10 & 50.

⑥  $x < 12$  or  $x > 20$

means any number less than 12 OR any number greater than 20

